

What Is Claimed Is:

1. A linear motor, especially for modular transportation devices, comprising at least one secondary part (4), supplied via an energy transmitting interface (3), on which consumers (2) are situated, and comprising at least one primary part (5) having field-generating coils (1) that are mounted side-by-side along a predetermined route for the propulsion of the secondary part (4) using a propulsion field,  
wherein an energy supply field (6) of higher frequency is superposed on the propulsion field, which is inductively coupled via the energy transmitting interface (3) of the secondary part (4) and supplies the consumers (2) mounted on the secondary part (4) with energy.
2. The linear motor as recited in Claim 1,  
wherein procedure required for an application process is executed by a consumer (2), and this consumer (2) is an apparatus relevant to the process.
3. The linear motor as recited in Claim 1 or 2,  
wherein it is driven in a monophase or multiphase manner and has a propulsion control or motion control, especially for modular transportation devices having straight and curve-shaped path sections which form a route sequence, having at least one secondary part (4), which communicates via an information-transmitting interface, which includes parts of the drive circuit, the secondary part (4) having at least one permanent magnet and one signal-processing device having a propulsion controller or motion controller, which generates at least one setpoint value relevant with reference to a coil controller; the setpoint value being supplied via a setpoint interface (9) from the secondary part (4) to a

coil drive circuit (7) that is stationary with respect to the primary part (5) as the quantity used for the commutation, and means for the rigid support of the secondary part being provided which guide the secondary part along the predetermined route.

4. The linear motor as recited in one of Claims 1 through 3, wherein at least one AC/DC converter on the secondary part (4) is connected to the energy transmitting interface (3) and it supplies the consumers (2).
5. The linear motor as recited in Claim 4, wherein the consumers (2) are connected to the AC/DC converter via DC/DC converters.
6. The linear motor as recited in Claims 1 through 5, wherein at least one AC/AC converter on the secondary part (4) is connected to the energy-transmitting interface (3) and it supplies the consumers (2).
7. The linear motor as recited in Claim 6, wherein the consumers (2) are connected to the AC/AC converter via AC/DC converters.
8. The linear motor as recited in one of Claims 1 through 7, wherein all those windings (1) of the primary part (5) generate an energy supply field (6) which essentially lie opposite to the secondary part (4).
9. The linear motor as recited in one of Claims 1 through 7, wherein exclusively in each case all those windings (1) of the primary part (5) generate an energy supply field (6) which essentially lie opposite to the energy transmitting interface (3) of the secondary part (4).

10. The linear motor as recited in one of Claims 1 through 9, wherein all the windings supply energy in response to an initialization of the secondary parts (4).
11. The linear motor as recited in Claim 10, wherein buffered accumulators and/or batteries and/or solar cells supply the required energy via the energy interface (3), during normal operation.
12. An industrial machine, especially for automation paths, which includes an industrial process, especially for flat stock, packaging and tools, the process including a linear motion which a linear motor executes that is driven in a monophase or multiphase manner, inclusive of motion control, having at least one secondary part (4) and at least one primary part (5) having field-generating coils (1) in concentrated or overlapping winding along a predetermined route, wherein an energy supply field (6) of higher frequency is superposed on the propulsion field, which is inductively decoupled via the energy transmitting interface (3) of the secondary part (4) and supplies the consumers (2) mounted on the secondary part (4) with energy.